*International Journal of Mineral Processing*, 38 (1993) 305–306
Elsevier Science Publishers B.V., Amsterdam



# Contents Volume 38 (1993)

Obituary Ugo Preti (1937–1992), by G. Ferrara ..... v

*Review*

Surface spectroscopic techniques applied to the study of mineral processing
A.M. Marabini, G. Contini and C. Cozza ..... 1

*Research papers*

Parameter and configuration optimization of flotation circuits, part I. A review of prior work
J.C. Yingling ..... 21

Parameter and configuration optimization of flotation circuits, part II. A new approach
J.C. Yingling ..... 41

The slip of a single particle on the inside of a rotating cylinder. Part 1. Theoretical analysis
M.B. Nates, G.N. Nurick and B.D. Reddy ..... 67

The slip of a single particle on the inside of a rotating cylinder. Part 2. Experimental investigation
M.B. Nates, G.N. Nurick and B.D. Reddy ..... 81

SIMS and SIMS imaging studies of adsorbed dialkyl dithiophosphinates on PbS crystal surfaces
J.S. Brinen, S. Greenhouse, D.R. Nagaraj and J. Lee ..... 93

Extraction of potassium from glauconitic sandstone by the roast–leach method
A.K. Mazumder, T. Sharma and T.C. Rao ..... 111

Dielectrical analysis of xanthate adsorption on galena in the presence of dextrin
J. Bessière and A. Etahiri ..... 125

Selective separation of arsenopyrite from an auriferous pyrite concentrate by sulphonate flotation
K.A. Kydros, K.A. Matis, I.N. Papadoyannis and P. Mavros ..... 141

*Book reviews*

Extractive Metallurgy of Vanadium, by C.K. Gupta and N. Krishnamurthy – M.R. Thomber ..... 153

Flotation of Sulphide Minerals 1990, by K.S.E. Forssberg (Editor) – J. Mielczarski ..... 154

*Research Papers*

Influence of grinding method on complex sulphide ore flotation: a pilot plant study
K.S.E. Forssberg, T.V. Subrahmanyam and L.K. Nilsson ..... 157

Floatability of apatites of different type and origin: role of surface area and porosity
K. Zhong, T.V. Vasudevan and P. Somasundaran ..... 177

The role of changing surface mineralogy on the separation of phosphatic clay waste
J.B. Andersen and P. Somasundaran ..... 189

The competitive adsorption of cyanide and ethyl xanthate on pyrite and pyrrhotite

surfaces
C.A. Prestidge, J. Ralston and R.S.C. Smart ..... 205
Flotation of carbonates from phosphate ores in acidic media
D.A. Elgillani and A.-Z.M. Abouzeid ..... 235
Carbon adsorption and leaching of gold by acid thiourea
R. Schmidt, S.A. Moya, J.E. Foerster and A.R. Varela ..... 257
Interaction between finely ground pyrite and potassium amylxanthate in flotation: 1. Influence of alkaline grinding
J.M. Cases, M. Kongolo, P. de Donato, L.J. Michot and R. Erre ..... 267

*Announcements* ..... 301

*Contents Volume 38* ..... 305